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Environmental effects on invertebrates

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Physiological ecology of invertebrates

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Physiological ecology of microorganisms

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Effects of pollution on marine communities

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Physiological ecology of invertebrates

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Resistance to stress including pollution; regulation; adaptation

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Behavioral physiology of fish; feeding; predation of fish larvae

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Physiology and ecology of corals

Burton, R. S., Prof.
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Population genetics; evolutionary mechanisms in populations; biochemical and molecular genetic analyses of invertebrates

Caron, D. A., Dr
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Feeding, respiration and nutrient regeneration of protozoans

Chapman, A. R. O., Prof.
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Physiology and demography of macroalgae

Conover, R. J., Dr
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Physiology and biochemistry of zooplankton

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Developmental physiology; endocrinology

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Biological rhythms

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Environmental zoo-physiology; behavior; biological rhythms

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Chemosensory behavior; mathematical models

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Stress effects on invertebrates

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Ecophysiology and toxicology of algae; cellular biology; behavior of algae

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Physiological energetics of invertebrates, incl. metabolic calorimetry; symbioses; hyperoxia and oxidative stress; effects of UV light; sea anemone biology

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Swimming dynamics of plankton; activity pattern and reproductive strategies of fishes; energy budgets of herbivores

West, J. A., Prof.
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Chemistry of red algae; molecular genetics of red and green algae

Zhirmunsky, A. V., Prof.
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Mechanisms of cellular resistance and control

CULTIVATION

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Nutrition of invertebrates

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Microcosm cultures

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Cultivation of invertebrates

DYNAMICS

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Coral-reef ecology; benthic ecology

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Ecology of suprabenthic animals; distribution of crustaceans

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Microbial ecology; trophic relations between planktonic protozoans and other heterotrophic and photosynthetic organisms; pelagic detrital aggregates

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Community ecology of rocky shores

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Nitrogen cycling and primary production

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Zooplankton biology

Cushing, D. H., Dr
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Productivity of the sea; fish-population dynamics; biological oceanography

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Structure and function of fish and benthic communities

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Population biology; microbial ecology

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Dynamics of nearshore ecosystems

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Population and community ecology of macroalgae

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Planktonic microbial ecology. Productivity and growth of microorganisms, especially bacteria

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Ecology of sea birds

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Phytoplankton ecology; community structure, dynamics

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Benthos of deep sea and temperate coasts

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Soft-sediment ecology

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Zoogeography; natural history of fish

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Crustacean ecology (incl. deep sea)

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Benthic ecology, emphasis on seagrass ecosystems

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Polar ecology; chemical oceanography; photosynthesis

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Crustacean ecology and biology

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Ecological energetics (particularly feeding)

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Population and community ecology of benthic invertebrates

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Estuarine ecology of macrobenthos and fish

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Feeding ecology of deposit feeders; geochemistry of trace elements in sediments

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Deep-sea ecology; radioactive pollution

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Phytoplankton ecology; nutrient cycling

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Ecology of molluscs; community structure of soft-sediment invertebrates

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Phytoplankton ecology; primary production

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Phytoplankton ecology; primary production; photosynthesis

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Dynamics of large organisms; ecology of sea birds

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Microbial food webs; trophic roles of phagotrophic protozoans

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Food webs and trophic interactions

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Rocky-coast ecosystems; deep-sea ecosystems

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Microzooplankton, particularly ciliates; secondary production

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Benthic ecology and bioenergetics; production; food chains of detritus-based systems

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Experimental intertidal and subtidal ecology; behavior; life cycles of sessile invertebrates

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Organic matter in sea water; theoretical population dynamics; geochemistry; chemical oceanography

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Structure and functioning of benthic communities; meiofaunal ecology; energy flow

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Reproductive dynamics of red algae; fine structure and parasites of algae

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Plankton ecology; community structure, population dynamics

OCEAN MANAGEMENT

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Pollution of marine environments

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Radioactive and conventional pollution

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Effects of man-made and natural disturbances on coral reefs

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Heavy metal pollution; estuarine chemistry

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Toxicology and pollution

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Marine pollution assessment and control

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Pollutant effects on plankton; radioecology

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Pollution effects on zooplankton; radioecology

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Pollution effects on benthos animals

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Bioaccumulation of trace contaminants (principally trace elements and radionuclide waste products)

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Toxicology and stress responses in invertebrates

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Radioactive pollution

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Chemical ecology, radioecology, radiotracers, pollution; protection of sea life

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Fish egg and larval survival

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